

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Boldly "X" this box if there is qualified data on this page.

Meter ID:

A

Project:

Carbon + pH Br.

- Notes: (1) Numbers ≤ 4 , are rounded down; numbers ≥ 5 are rounded up (e.g., 5.15 becomes 5.2).
 (2) Always wait for meter to stabilize before recording any readings.
 (3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Circle/Fill In: Lab Calibration or Calibration/Verification on Site

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification

1-7-16

DO DEP SOP FT 1500	Name	Date	Time (ET)	Temp. (°C)	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Danny Bolger	3-14-16	0713	23.6	8.5	8.5	100	60		P F	L F
ICV	" "	" "	0715	23.5	8.5	8.4	99	60	1.02	P F	L F
CCV	" "	" "	1455	26.9	8.0	7.9	99	60		P F	L F
CCV										P F	L F

Report DO mg/L with one decimal figure and DO % saturation as a whole number with no decimals.

DO Acceptance criteria from Table ± 0.3 mg/L.

Rapid-Pulse Sensors: DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.

Optical: DO gain range 0.85 to 1.15; DO charge N/A.

Steady-state & Galvanic Sensors: DO Gain & Charge N/A.

Spec. Cond. FT 1200	Name	Date	Time (ET)	Lot #	Expir. Date	Standard μ mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	Danny Bolger	3-14-16	0718	150915D	9-16	1000	999	P F	L F
ICV	" "	" "	0719	" "	" "	1000	1001	P F	L F
CCV	" "	" "	1457	150741B	8-16	500	504	P F	L F
CCV								P F	L F

Report specific conductance as a whole number with no decimal figure.

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time (ET)	Lot #	Expir. Date	pH Buffer SU	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Danny Bolger	3-14-16	0722	156244	10-17	7.0	7.0	-50	P F	L F
Calibr.	" "	3-14-16	0723	160222B	3-17	4.0	4.0	116	P F	L F
Calibr.	" "	" "	0724	150915B	3-17	10.0	10.0	-234	P F	L F
ICV	" "	" "	0725	" "	" "	10.0	10.0	-231	P F	L F
CCV	" "	" "	1459	160222B	3-17	4.0	4.0	113	P F	L F
CCV									P F	L F

Report pH with one decimal place; pH Acceptance criteria ± 0.2 SU; mV pH7 Range 0 $\pm$ 50; mV pH 4 Range +180 $\pm$ 50; mV pH 10 Range -180 $\pm$ 50; Slope from 7 to 10 and 4 to 7 must be between 165 and 180 mV

Depth (Quarterly)

Date of Last Depth Verification

Depth Sensor (Daily)	Name	Date	Time CT-ET	Zero the Sensor	ICV Value	Pass / Fail	Lab / Field
Pressure mode in air				0.000			

ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater

Notes:

Estero Bay Aquatic Preserve

Pro DDS Calibration Log

Date: 03/14/16

Name: Rebecca Flynn

Check Time(circle): (Y) N

DO Changed: Y (N)

Batt. Changed: (Y) (N)

Sp. Cond.: 50.729 Lot: 15J100187
 pH(7.0SU): 7.02 Lot: 2504649
 pH(7.0) MV (0 mV $\pm$ 40 mV): -32.5
 pH(10.0SU): 10.04 Lot: 15H2T
 pH(10.0) MV (-180 mV $\pm$ 40 mV): -209.5
 pH Slope (165-180 mV): 177 pH slope = pH 7 mV - pH 10 mV
 DO (99.5 %): 99.7 inHg
 8.22 mg/L 756 mmHg 1008 mb
 Temp: Pro DDS 25.1 $^{\circ}$ C
 Therm 25.5 $^{\circ}$ C depth(0.054)
 Turb (0.0 NTU) 0.9
 NOTES: Turb (126 NTU) 121.7 Lot # 15J582447

Post Calibration

Date: 03/14/16

Name: Rebecca Flynn

Sp. Cond.: 49.952
 pH(7.0SU): 7.00
 pH(7.0) MV (0 mV $\pm$ 40 mV): -32.7
 pH(10.0SU): 9.99
 pH(10.0) MV (-180 mV $\pm$ 40 mV): -208.8
 pH Slope (165-180 mV): 176.1 pH slope = pH 7 mV - pH 10 mV
 DO (99.7 %): 99.3 inHg
 8.13 mg/L 758 mmHg 1010 mb
 Temp: Pro DDS 25.6 $^{\circ}$ C
 Therm 25.5 $^{\circ}$ C
 NOTES: Turb (0.0 NTU) 0.5
Turb (126 NTU) 124.6

Updated: 11/25/2015